

Anti-h Galectin-3 10305 SPTN-5

Product overview

Catalog number	100734
Specificity	Antibody recognizes human galectin-3
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Galectin-3 (Mac-2 antigen, IgE-binding protein, L-29, or CBP30) is a soluble lectin that binds to β-galactoside sugars found on several proteins. It is a pro-inflammatory and pro-fibrotic marker involved in fibrosis of various organs, including heart, vessels, lungs, liver, and kidneys. Its expression is upregulated in chronic inflammatory diseases, heart failure, hypertension and atherosclerotic lesions, and it is involved in several pathophysiological processes including cancer, liver cirrhosis, and diabetes mellitus.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/-10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.0 – 6.9
Purity	≥ 95 %

Kinetic parameters

Association rate constant	6.1×10^5 1/Ms
Dissociation rate constant	1.3×10^{-4} 1/s
Affinity constant	$K_A = 4.8 \times 10^9$ 1/M; $K_D = 2.4 \times 10^{-10}$ M (= 0.24 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Recombinant Galectin-3, Medix Biochemica, Cat 610144



Legal disclaimer

Cross-reactivities Does not recognize Galectin-1, Galectin-9, or Galectin-3-binding protein

Epitope Located in the amino acid region A66 - T104

Pair recommendations

		DETECTION				
		10301	10302	10303	10304	10305
CAPTURE	10301	-	+	+	+	+
	10302	+	-	-	+	+
	10303	+	-	-	+	+
	10304	+	+	+	-	-
	10305	+	+	+	-	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested FIA, CLIA

Antigens tested Recombinant Galectin-3 antigen, Medix Biochemica 610144.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous -

References -



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